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Union Texas loses appeal over taxing of dividends from UK

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## Brussels imposes duties on video recorder imports



In any language，$A N Z$ is Australasia＇s leading international bank．

[^0]EUROPEAN NEWS

Higher economic growth forecast in France

## By y lan Dewidson in Paris Tris rickir in the







## SPD bid to alter its anti-business image



US presses Moscow on ABM treaty By Andrew
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## West Germany's tax scandal entangles insurance magnate



Netherlands plans big tax cuts

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Up to 100,000 Iraqi
Kurds flee from fighting into Turkey

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## Hungary launches lottery

 to tap hard currency



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## Ceausescu's bulldozers ready to bury rich heritage




Demmark aims to: Spending


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Hezbers,

BBCCattempts to push open By Raymond Snoddy



Volgograd tractors bogged down by old technology and poor quality


## OVERSEAS NEWS

## Afghan guerrillas quarrel over fate of besieged city

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## General strike called for across Burma By Ricchard Gourtay in.

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Chinese get senior Hong Kong jobs By. Jotin
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Asian immigration issue divides Australia
Chris Sherwell reports on a groundswell of opinion against cosmopolitan tolerance

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last week for shipment to Irai

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Taiwan＇s shoemakers seek foothold abroad
Lower costs are leading the island＇s shoe industry to set up overseas，says Bob King

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Holden＇s takes up fight with Ford for Australian market

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## USX wins steel products

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## Hong Kong group to buy

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## Correction Notice

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## CITY OF LONDON

PROPERTY
The Financial Times proposes to publish a Survey on the above on

Friday 23rd September 1988
For a full editorial synopsis and advertisement details, please contact:

## JONATHAN WALLIS

on 01-248-8000 ext 4196 or write to him at: Bracken House, 10. Cannon Street London EC4P 4BY.

RINANCLATMMES

## Disruptionto your Postal Service

The Royal Mail regrets the major disruption to postal services and the inconvenience to our customers because of industrial action by the Union of Communication Workers.

We are doing everything we can to restore a full postal service as soon as possible.

This unnecessary disruption is for the most astonishing of reasons - because we are paying MORE money to some of our new staff in London and the South East where we have a real problem attracting and holding on to new recruits. We need experienced people to protect the quality of service our customers expect and deserve.

The UCW opposes these payments and has refused our repeated appeals to return to the negotiating table - instead it called a 24-hour national strike.

We hope services will be back to normal shortly, but in the meantime if you need more up to date information on postal services in your area, please contact the Customer Care Unit shown in your local telephone directory under "Post Office."

Joint venture to kick off US

## soccer drive

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## NatWest to seek

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## Ports face

| BRITANTa ports corld face month because of a dispute over annual holiday entitlements. Impolving nearly 10,000 The TGWU transport union is organising a strive ballot of the dockers registered underthe controversial jobs-for--iffe National Dock Labour Scheme. The result of the ballot, which calls for a series of the registered ports $\frac{2}{m}$ support of improved entitlements, are cue in the last week of hismonth. Under the terms of the Govermment's trade mion leg- |
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| isiation, umion leaders will have to call a strike withixu 28 days if a majority favom. <br> The baillot follows the breatdown earlier this month or Docks Agreeineant bet ween the National Association of Por Employers (NAPE) amd union ers. <br> Ths union rejected the employers' offer based on, an tisment from 22 days to 23 days, effective from 1989 and |
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Airport capacity to be political issue 'by end of this century'


NotionealAustivelitar/kBennt
National Australia Bank Limited U.S. \$50,000,000

Floating Rate/High Initial
Spread Notes due 1993 For che six monchs 30th August, 1988 to 28 sh February, 1989
the Notes will carry an interestr rate of $11 / \%$ per annurn with the Notes will carry an intersst, rate of $112 / 1 / \%$ per annurn with

an interat amoumr of U.S. $\$ 631.94$ per U.S. $\$ 10,000$ Note. $\square$| BankersTrust |
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Tests in £1.5bn job training initiative see $55 \%$ failure rate



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## FINANCLAX TMMES THURSDAX SERTEMBERI 1988



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| Allied-Signal announces |
| appointment of treasurer |}



## Mining group names president





Digitext
chooses chooses chairman mion







Finnish commercial bank strengthens management team





ACCOUNTANCY APPOINTMENTS


HEAD OF CORPORATE FINANGE
 planned expansion programme of a major firm with a strong presence in the North. West aind whose mimpressivver ecord of suiccess and dynamic -
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both in terms of plainning and ind implementation and in bringing deals to a rapid and positive conclision orther key responsibilitios wifl nectude
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You will have a successstif track record to date wiich should include
experience withria financial seivicess or merchant banking environme - experience within a financial sevicess or merchant banking environment.
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Group Financial Controller LONDON to $£ 40,000+$ excellent benefits
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## BUSINESS PLANNING-RETAIL

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Our client, a dynamic and bighty regardod leader in the retail sector is continuing iss impressive growth recond. In this fast moving environmen enhancement of product ranges combined with targeted store enhancement of
To meet the chatlenge of continued expansion they have an immediate The role will irvilue interaction with commercial management The role will involve interaction with commercial management
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A commercilly minded individual with financial expertise, your success
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## Chief Internal Auditor

To £27,000 + Car Scheme

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Candidates should be qualified accountants with up to four years post qualification
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Robert Walters Associates is rapidly emerging as the most progressive financial recruilmentconsultancy in iondon and the are looking to recruir a Financial Controiller who can demonstrate thorough accounting ability together with sense of commencial awareness.
The successful applicant will have experience of fully computerised accounting systems, tight reporting deadlines and computerised accounning systems, ught reporting deail preferably have been gained within a large corporate
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c. $\{30,000+\mathrm{Car}+$ Bonus

The position reports.in to the main board and has striong strategic responsibilities paarticulady with regard too oir European expansion programme: One accuinisicion has ustbeencomplen establisished within the nexst twelve monaths.
Interested applicants should call James IKpde or Markik Gibert 00 elote 0464 or write enclosing a current CV to the address


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From April 1989 the College will be a highei education corporation with charitable status
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Closing date 20th September


## Finance Director

Design \& Communications Group £35,000 package + Car London



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New Executive Financial Control And Business Planning c. $232,000, \mathrm{Car}$, Full Banking Benefits City


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Impressive organic growth together with an aggressive International acguisition strategy continue to enhance this Company's reputation as a European market leadër in computer services.

Finalist ACA/CACA/CRMA $\quad=: 517,500+$ Benefits
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Based in SWL London you will have sole responsibility for he preparacion of monithy managemenent reports, includiang budgert
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This is a demanding role necessinatirg a high level of echnical abilitys in revurn career progression will be excellent and study assistance provided Susen Wild.
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For further information contact the consultants named above on $01-497-0464$ or write enclosing brief denaik to the adaress below: if you are currenty working in Europe and would prefer an initial meeting in our Brussefs office contact Simon Malloni on (322) 512 oot2.

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INTERNATIONAL APPOINTMENTS

## STATE OF QATAR

Ministry Of Finance \& Petroleum Department of Civil Servants Affairs

## ANNOUNCEMENT

The Ministry of Finance \& Petroleum announces vacancies for
Translators specialised in translating legal texts from Arabic to English \& vice versa

Applicants should have a University degree,
with at least ten years experience in the same field.

Those who have worked with International Organisations and International Companies will be preferred.

Salary will be determined according to qualifications and experience.

Applications should be addressed to: THE CIVIL SERVICE DEPARTMENT
Ministry of Finance \& Petroleum P.O. Box 36, Doha, QATAR.

Deadline for applications will be on 30th September 1988

## Finance director

Leeds ce25,000 + equity share + car
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 department which handles all accounling, pertormance monnigo ing and pianning. Your trrow tht the introducsion of a computerised accounting system, You witl I tso have the
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Our client, a Group H.O. Company which is proftable and has a turnover ccr100 million.,
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-be a qualified Administration Director answers to the Group Managing Director and will hotd a senior financiad managemem position carrying responsiblitry tor the financial controt of a group of companies, and have some experience of acquisitions preferabty

- have experience, inancial or commercial, of doing businoss overseas preierably possibly in electronic or in electrical englneering.
- be prepared for a reasonable amount of travel in Europe.

Whlst the postion is U.K. based the appointiee need nol be a U.K. national.

Write briefly or sond CV to dohn Heam at this address: Heam Healy \& Parners Moncogoment \& Recrullment Consillazns

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FINANCIAL DIRECTOR (DESIGNATE)

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To produce meaningful management information, the $£ 4 \mathrm{~m}$. turnover service oung qualified ACA/CIMA or equivar for full listing, requires a very ab systems.
The successful candidate is likely to be in the $25-35$ age range with a minimum of 12-18 months commercial experience.
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FOUTHAMPTON INSTITUTE OF HIGHER EDUCAIION Salary circa $£ 30,000 \mathrm{pa}$.
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to the Principal for the development and management of Financial. Personnel and to the Principal for the development and management of Financial. Personnel and The person appointed will have had significant financial management
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communicition skills communcar further detalls of thls post apply to Mr. J.w. Longden, The Principal
Southamp fon nititute of Higher Education, East Park Terrace, Southampton,
Hampshire Sng 4ww Closing date for applications is Friday 16th September, 1988.


## INTERNAL AUDIT AND INSPECTION

Due to expansion of the London Branch of one of the largest and most prestigious Japanese Banks, a senior person is to be recruited for a new position within the specialised area of internal audit and inspection.

The successful candidate will be aged $30-40$,- with at least 5 years relevant experience in internal audit and inspection functions within a flexible approach to work and must have the ability to control the andit and inspection operation.
$\mathrm{He} /$ she will be responsible for the implementation of the internal audit procedures throughout the Bank's various departments, will ensure that internal inspection procedures are complied with and will be responsible for the preparation of reports to Head office
Applications should be made by submitting a Curriculum Vitae stating experience, salary and personal details, together with a covering letter.

Write Box A0978, Financial Times, 10 Cannon Street, London EC4P 4BY
Only personal applications will be considered

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Young Accountant
City Based $\quad \mathbf{f 2 2 , 0 0 0 ~ + ~ B a n k i n g ~ B e n e f i t s ~}$ Chalforgee rautine work. Discower instead tha innovaiton, presssure.

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contribution to company growth will be expected. He will imself and others and be looking for a board appointimeat within the fors

Candidates who feel that their expertise and personality meet these requi Avery Assoa
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## Newly Qualified Management Accountancy Appointments

For the first time on September 8th, 1988 the Financial Times proposes to publish a list of he Management Accountants who have been successful in the recent Stage 4 final examinations,
The heading will be "Newly Qualified Management Accountancy Appointments', and is an ideal opportunity to recriut Manajement experience. with at least three years basimes. The advertising rate will be z 4700 per single column cen hate win prenum.posio column centimetre.
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FINANCIAL TTMES



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This is an aututanding opportunity focpprofessional men and woumin in progressive public companiy with drive and imbition. Selary levels, for the successful condidares, wil porte tss nompal fringe:



## Group Finance Director

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Atto



## H

The US multinational still believes in national differences. Philip Rawstorme reports






## Pirelli legs it in West Germany

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TECHNOLOGY



## Sorting out space for satellites

Della Bradshaw assesses the prospects for international agreement on a fair way to allocate slots in orbit


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## GALLERIES

## Curators take their pick

William Packer visits the Tate in London and the Nottingham Castle Museum


Offenbach's Périchole
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FINANCLAL TIMES THURSDAY SEPTEMBER 1-1988

## FINANCIALTIMES

RACKEN HOUSE CANMON STREET, LONDON EC4 PABY


## Lessons of the Karin B



## Pinochet stakes Chile's future <br> uture


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David Owen talks to controversial commodities trader Marc Rich
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## Establishment anti-heroes



Kuwait and BP

## Britain's free market credibility at risk <br> By Ian Seymour



## LETTERS

Controlling inflation remains the central priority




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Watching and weighting

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How to "K"eep Ahead in Shipping.
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our compsterized documentation system that minimizes paperwork and speeds up the your cargo's bcation at all times - and collects product-related marketing/distribution data worluods and new routes methods and new routes
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Pinochet holds all trump cards in Chile poll












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## INSIDE Inland Steel shows mettie of elachess <br> mette of success



## VW sales soar as demand rises in foreign markets



Nippon Mining lured by Gould marriage prospects
Ian Rodger and Anatole Kaletsky look at the growing attraction of foreign bids for Japanese industry


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## Dutch claim bid victory for UK property group



## Advance for two

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## Carnival Cruise poised to take over Royal Admiral

CARNYA, CRTSE

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U.S. $\$ 100,000,000$

41/2 per cent. Bonds due 1992
Warrants
to subscribe for shares of common stock of Nichirei Corporation
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Fuji International Finance Limited
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Bank of Tokyo Capital Markets Group
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Inland Steel builds on quality Deborah Hargreaves on a strategic move to higher-margin products


Cash-rich Antofagasta seeks acquisitions


#### Abstract

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## NOTICETO MIDLAND BANK ACCESS CARDHOLDERS

Midland Bank plc announces that the interest charged to its sterling Access cardholders will be increased from $1.75 \%$ to $2 \%$ per month with effect from 8th September 1988. From that date the new rate will be applied to all interest bearing balances, cash advances and purchases attracting interest for the first time. This means that the
ANNUAL PERCENTAGE RATEOF CHARGE WIIL BEINCREASED FROM 23.1\% TO 26.8\%

Condition 5 (b) of the Conditions of Use will be amended accordingly with effect from 8th September 1988.


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## Alusuisse hopes to resume payout <br> 

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## Market debut for Ferruzzi Finanziaria



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## American Trade Partners, LP

$\$ 56,000,000$
Revolving Eredit Facility

## $\therefore \quad$ ANFE Securities (USA) Inc. <br> Australià and New Zéaland Banking Group Lid. <br> Bayerische Vereinsbank AG <br> Mibemia National Bank <br> LaSalle National Bänk <br> FennoScandia Bank Limited

Agent:
Aüstralià and: New Zealand
Banking Group LId.




ABB heads
for strong for strong
profit gain

## in 1989


ASEA RROWN Boveri (ABB)






## Interest Rate Change

Allied Irish Banks plc announces that with effect from close of business on 30th August 1988, its Base Rate was increased from $11 \%$ to $12 \%$ p.a.

## (A) Allied Irish Bank

Bankcencre - Brivinim, Belmont Road, UXbridge, Middlceex UB8 ISA. Tell (0895) 72222
the councry.

## NEW INTEREST RATES

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With effect from Ist September 1988

| 1.50 | Home Improvement <br> Loan | 14.00 | 15.00 |
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| 1.00 | HomeOwnerReserve | 16.00 | 16.90 |
| 1.80 | Home Management <br> Account | 21.00 | 22.70 |
| 3.00 | Vector | 21.00 | 22.70 |
| 3.00 | CheckOver | 21.00 | 22.70 |
| 3.00 | Standard Debit <br> Interest Rate | 27.00 | 29.80 |


| With effect from 29th September 1988 |  |  |  |
| :---: | :---: | :---: | :---: |
| 1.20 | FlexiLoan | 19.20 | 20.90 |
| 1.50 | Save and Borrow <br> Account | 21.00 | 22.70 |

Foreign banks find going hard in Tokyo
Stefan Wagstyl looks at a post-deregulation dilemma






Eurodollar issues shelved after sharp fall of yen


Dead Sea Works 30\% up at midway




## Slough matches City expectations



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## Acquisitive Erith advances 34\% midterm


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cant increase in the year:s
profit


## Packaging boosts MacFarlane to $\mathbf{£ 3 . 3 m}$

A 41.5 per cent advance in
 compang with interestsing
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hution. For tha Eirst hat of 1988 profits
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The interim dividend is
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## Borland shares fall on warning

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Borland is laying of
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$(x 4.6 m)$ last year, Borland


Godwin Warren in receivership Godwin Warren Cont

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CTICORP © MORTGAGE SECURITES,INC.
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Security Pacific
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 Microfilm to fund £11m US buy with rights issue

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year, a 50 per cent increase.
Like Micrompum Reprograph- At the intertm stage, Mr Red
mond said the costs of develop


## TMD picks up $£ 20 \mathrm{~m}$ of

 billings with Yershon buy

MONTHLY AVERAGES OF STOCK INDICES

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## BICC arm buys cables minority from GEC

Steel Burrill can see no dramatic profit pick-up


#### Abstract




## CLF shows $45 \%$ midway rise


First half setback for American Trust






 Thite interim dividend is








## Overheads

## halve Davies





 and
Eglinton profits jump to $\mathbf{I E} 0.2 \mathrm{~m}$


 Bristol Waterworks






## Suter sells Avdel stake option



Pernod rumours raise IDG 13p




## CURRENCIES, MONEY AND CAPITAL MARKETS

## MONEY MARKKETS

UK rates steady



FINANCIAL FUTURES


## Rate differ entials hit yen

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US bond prices firmer

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| against the Japanese | ahead of tomorrow's release of | September price over the cash |
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| reports that the Bank of Ja | long git futur | eroded, as short term investors |
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## LONDON SHARE SERVICE



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The Financial Times proposes to publish this suirvey on: 19th September 1988

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EMNANCIATMMES

## Rally in equities fails to take hold



Maxwell hopes to win AGB Air Rrsiaicin bian tid
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## Indonesia sets out to encourage oil explorers

##   <br>  <br>      



## Jamaica settles Alcan tax row

has JAMAICAN Governmen tanes paid by the company on
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The Government has been
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with Kaiser Aluminum orthe
US. One of the refinerys

## China aims to top rare earth league

By Lynne Curry in Peking

| CHINA WAS aiming to become earth exporter hy 1990 China Daily, the official nglish-language news | Hebei Province, ${ }^{\text {it }}$ mas reported that reported that raxe-arth last year, a 6,000 -ton increase on 1985. | the rareearth sypervisory <br>  as saying that agreement |
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| Rare earths contain metallic | China has the world's largest reserves hut China Daily sald |  |
|  | the counatry ranked second to | ad |
| tronics and his |  |  |
| Chinese exports | leading processors of rare. | yentures.tn Jiangri Province |
| ${ }_{\text {about }}^{\text {abe }}{ }_{\text {global }}^{\text {per }}$ per cent of | earth minerals sald China |  |
| the country planned to |  |  |
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| sam | ahout lmporting advanced technology forther | iterior to the standarcts |
| at a conference on rare- | develop rareearth products. <br> However, an official from | achieved in indnstrialised |

COMMODITIES AND AGRICULTURE

## Ok Tedi workers end 13-day strike

##       <br>     <br> PNG's gold outlook

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Making time for Africa's food

## John Madeley on a UN project to free women from drudgery


Dairy co-op seeks export boost

company, Mejeriselskahet
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Tigi Salatioman Mheat



That would be 88 per. cent
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## LONDON MARKETS

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1970, 1980, 1981, 1990.
Antwerp-2000, 2008, 2018, 2020;
2030, 2040, 2050; 2060, 2070, 2080;
2100, 2110; 2120; 2130; 2153, 2180;
2200, 2210; 2230; 2232; 2241, 2600;
2610, 2700; 2710.
Gent - 9000: 9110s. 9820: 9830,
9831.

Liege - 4000, 4020, 4200, 4400.
Leuven-3000, 3030, 3044, 2072.
Kortrijk - 8500: 8510: 8550, 8640.
Brugge - 8000, 8200.
(8) Brussels (02) 5132816

And askf for more detrik.
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Diana Majestic, Duca di Milano, Hotel Excellsior Gallia, Hilton Hotel, Hotel Michelangelo, Hotel Palace, Hotel


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NYSE COMPOSREPRICSS


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| If you work in the business cantres of BERGEN OSLO or STAVANGER - - gain the edge over: yogr competitors:- <br> Have your Financial Times personally delivered to your office at no extra charge anid you will be fully briefed and alert to all the issues that mfluence or affect your $12 \text { ISSUES FREE }$ <br> market and your business. <br> When you take out your fist subscription to the F.T., we:ll send you jz issues free. Then see for yourself why William Urigeheuer, Time magarine's senior financial correspondent, describes us as "the paper with the best coverage of international finance." <br> Oslo (02) 684020 <br> And ask Heidi Aastorp at Narvesen Info CentreNIC.for details. <br> FINANCTALTMES |
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Have your F.T. hand delivered

## in Belgium




## AMERICA

See-saw session ends with slight decline by equities




 canada

 Tis ASIA PACIFIC
Falling yen drives Nikkei downwards in low volume

## Tokyo

A WEAKER yen added furthe terday, pushing to equatites yes
down in thin volume, prices
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 tronic materials group, Gould
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 For several days. equities
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 tion prior tot the end of the the
fiscal year for financial firms
on September 30 . The Nie Nikei average, which
hady fisbed highar whes
day, failed to retain its modest strength and closed 145.70
down at $27,365.95$.The day's
high was $27,63.56$ and the 1ow Volume at 414m shares, was
ever thinner than Tuesday's
451 m shares.
 1,763.15. Japanese equity war-
rants also fell ally. one trater said amid
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Frenzied activity is mere memory in Israel


## EUROPE

## Paris lifted by news on economy and taxes



[^1]







耻The world's aerospace industries are now busier than ever Rising costs have led to fewer new civil and military programmes, but production runs are longer and the pattern of international collaboration increasingly complex. Michael Donine reports:


AEROSPACE


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| Reglanal airlinera Alport growth |  |
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| Australla South Afrlea |  |
| Hellicoptars | 20 |
| bus/McDonnell Douglas link. <br> In the smaller regional air arena, there are possible new devclopments in jet-powere smaller prop-fan types of les than 100 seats. <br> In the military cield, deriva tives are also playing a majo role, mainly in the form o improvements in engines an in avionics (alrborne electron ics) systems, which can signif mances without the expense of developlng entirely new ai Names. <br> Nevertheless, some majo newned, such as the Europea Fighter (EFA), the Advanced Tactical Figbter (ATF) for the US Air Force, and the Advanced Tactical Aircraf (ATA) for the US Navy <br> if not all of these por in mos actual and potentlal, is the growth of international colla oration. This <br> This has already becom |  |
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## Westland.

 Even the ones we didn't make couldn't have made it without us.
 dectined tor
And the diversity of expertise we have destroys the myth
that, when you mention Westland, you're only talking that, when you mention Westand, you're only talking You will find our composites providing flight-critical
components for the McDonnell Douglas MD-11, as well as forming primary composite structures for the wing panels
on the Boeing $737-300$.
 Whils the Reckwell Corporation has us io thank for the
 Noo than any of this acisiriy has dissacted us from Not that any of this activity has
our pioneering work in helicopters.
A Westland Lymx holds the World Helicoptcr Speed
Record And the EHiOl, the result of our collaboration Record And the EH1OI, the result of our collaboration
with Agusta of taly, sets new standards in helicopter with Agusta of tealy, sets new stan
safety, performance and endurance.
So if you've always seen us as a specialist company, you
would be right. We just happen to specialise in rather more areas than
most people think.

## Westhand Group



## Rapid growth in

## AIR TRANSPORT EXPANSION




#### Abstract



Mlehatol Donne


## FARNBOROUGH



ON THE THOMSON-CSF STAND NOW

We're Thomson-CSF. Euro-
pe's N. 1 contender in the global pe's met for edvanced electronics systems for
epplications.
And inshows. Visit our various
stands et Farnborough - Hall Noi stands et Farnborough - Hall No. 1 view of eerospace Into the 1990s.
And beyond. And beyond.
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any is a leading global supplierof and miltary aviation-the product
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resources integrated avionics and onbourd of Thomson-CSF resources
eeroneutits systems; ground- know-how and experience in

 Of world-class soitions to meet
customers requirements. $\begin{aligned} & \text { cat } \\ & \text { Tend defense, antisubmerine } \\ & \text { werfere, and airborne weaponry }\end{aligned}$
 corporating cutting-edge inno- rough 1988 And see what eero
vetions in the areas of both civil space looks like in tha 1900s.

## - THOMSON-CSF

THE BRAINPOWER. THEWILLPOWER. THE WINPOWER


## Air movements to double






















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WANTED BY EXPANDING PLC
Operations in design, manufacturr \& sapport of
AEROSPACE/DEFENCE/PRECSION
PRODUCTS







AIRLINER MANUFACTURERS

## A boom in jet sales



## THE ENGINE BUILDERS

## Power ratings going up





where this trend will end, but





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| :--- | :--- |
| Continued on page 4 |




## Engine power ratings going up



## to gervice to 199

## TOGETHER A BIGGER FUTURE <br> 

Partuer to one aerospace industry, having eamed a dose involverment in many of the wort's major atvances in filigt systems develop iment
The Aerospace Group has grown year on year
sening both commiercal and deferce market sening both commiercial and defeence market sectors with over $60 \%$ going to expon
The scale effect of our increasing development base is designed to Providi Smitrs tha ustries
even more bushess potertial for the future.

- Toreach ing fan undited compan
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To match our expanded activities on both sides of the Atantic, a new Central Technology Deppartment of our advanced digital avionic systems:The pooling of these increased resource strengthens our position to meet the drallenges Together we move technology. Together we move towands a bigger and betie $\square$ Aviritis invuspipies ospace \& Defence Systane

.BUSINESS AVIATION

## Means to beat congestion

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 Cessma led the way with detiv-
eries of 28 Citations, wortt





## AIRSHIPS AND BALLOONS

## A growing world demand



Alrehtp Industrises' Skyship 600 ovar Laetoit
MNTRREST in liphtert-than-air: nies builld and expoit about 500 . raploly morndwide These
include moth hotair balloons







## DOWTY. A FORCE TÖ BE RECKONED WITH <br> DOWTY. A FORCE TÖ BE RECKONED WITH <br> DOWTY. A FORCE TO BE RECKONED WITH



Dowty presents a formidable force in the aerospace and defence sectors...with Dowty Aerospace committed to the manufacture oflanding gear, state of the art propellers, flight control acuation systems, and the Electronic Systems Division focusing the Group's expertise on systems for aircraft and engine control, missiles and antisubmarine warfare.

Working for such companies as Agusta, Airbus Industrie, Boeing, British Aerospace, Fokker Garrett, General Electric, Pratt and Whimey, RollsRoyce and Saab as well as the MoD, we have built a reputation for technical excellence in development, production, installation and global product support with a capacity which is truly intemational.

We have a considerable presence in the United States accounting for over $£ 140 \mathrm{~m}$ of the Group's rumover, and, in Singapore, Dowty can lay claim to being the second largest aerospace employer.

Far from resting on these hard won laurels we are continuing to invest in the future with facilities such as a $£ 17.5$ m landing gear procuction plant which suppors the highly successful Airbus programmes.

From military to civil applications, more than 120 types of aircraft flying today take off with Dowty expertise on board.

In fact, the world's first Full Authority Digital Engine Control System (FADEC) on a single engined fighter, the AV-8B Harrier, reflects Dowty's leadership in the field.

As you see, like the Tomado and Airbus pictured here, Dowty is a force to be reckoned with

THE WORLD'S space industry
Orer the next fee years locks
ikely to settle do down to
 the busirass start to become
tmoothed out The sector is passing
througs econsilidation phase
betwen the initial headlong betwe it the initial headiong
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 Space programmes. eccord.
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 The early rocket launches spy satelites and other mili.
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vital tor defence purproses. At the same time. the adivent
of manned space filght, in the
 vopage in 1961, led to a battle
for political prestige played out
between the US and the Soviet Union,
Todid. spe se programmes
are still very much afrected by THE POSSIBILITY Concorde euther late this cem-
turror er erly in the next in on
tutracting increasing attention, especially in the US. Aall the major airliner mann-
facturrs have sutided this pos.
sibily for years recently for years, has spont until recently none has spent any
siginicant sumson it liargly
because of lack of airime (annd soverimentit) interest.
Thas sitination may now be hanging, for several reasons.
One is is that Concorde itself, while still good for service
throueht the end of this con.
tury as a resilt of its ary as a resuit
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possibly much longer if the posssibly much longer if the
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Commercial involvement in space programmes is increasing Private sector moving in

## Private sector involvement is also increasion in the aret of      decade ago wo mand should boost strongmopy the private sector's  satalites into space Thice apace shantle fieet. which should be fyling agein



HYPERSONIC FLIGHT

## Stepping beyond Concorde

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While Britain at the last
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## NEW:MATERIALS




#### Abstract

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tually alog for commercial





\section*{Advanced lessons in Hotol}| Bu |
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Military spending will remain high into the next century

## Eurofighter sustains jobs


#### Abstract

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 Possible new ventres io


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in new tea.
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AEROSPACE 8

Higher development costs are forcing companies to collaborate

## More missile project links



missile is expected to begin
shorty.
Antmber of other Europen companies and Garreur Mam
facturne in Canada are als
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mititilly, a joint nitially, a joint company
BEC. formed by Bodenseemer
Geratetechnik and Britis BBG. formed by Bodenseemein
Geratetechnik and Britis
Aerospace, was responsible
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BAE said the decision
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 to compete for European man-
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avivanced medium air-to-air missile AMRAAM
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been under way since 1980,
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MANUFACTURING TECHNOLOGY

## Better fastening methods

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## A critical sector



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## Many things can happen to a promise.

A promise can be broken.
It can be ignored.
Or simply forgotten.
A promise can be put on the back burner.
It can be attributed to someone else.
Or just lostin the shaffle
A promise can become procrastination.
It can become puffery.
Or just wishful thinking.
Of course; there is one more
thing that can happen to a promise.
A promise can be kept.

## Keeping the



## Promise



## 1.

We kept our promise of reliability for our commercial customers with the CF6-80C2-the only new generation engine in its class with FAA approval for 120 minutes of Extended Range Operation over water for the new widebody twins.

## 2.

We kept our promise to fighter pilots with engines that make good fighters great fighters. Both our F110 and F404 have added new responsiveness and durability to the service performance of the world's most sophisticated fighter aircraft.

## 3.

We kept our promise to make the most reliable helicopter engine. Right now the T 700 is setting new standards all over the world. Derivatives of this proven engine are now in production. They deliver $30 \%$ more power, with room to grow as our customers need it.

## 4.

We kept our promise to our marine and industrial customers with the LM2500 gas turbine-an engine so durable, some units have been in service for over ten years without an engine-related shutdown.

## 5.

We kept our promise to revolutionize subsonic flight with the next generation of fuel efficient engines, the GE36-an unducted fan engine that cuts fuel consumption by up to $40 \%$.

## 6.

We're keeping the promise of unsurpassed product quality and service support with a worldwide network of dedicated GE people who hāve never forgotten that the customer is number one.

The balance of the US aerospace industry is shifting
Civil orders set to rise



AEROSPACE 12




## 

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## SOVIET UNION <br> Massive and vigorous

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Pressures on France's aerospace industry have intensified.

## In search of collaborators


Mispainic arda


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Spending rate still rising



WEST GERMANY

## A saga of wrangling




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| balance sheet <br> But Bonn is being asked by <br> tionsl financing obligations as <br> a condition for to step in with a an per cent <br> to step in <br> The political and industrial horsetrading also involves the governments of Bavaria, Ham rently own a 52 per cent stake in MBB. <br> Daimiler is highly interestec <br> by the MBB weapons and space <br> complementary to its presen <br> activities (inclucing the pero cent ownership Motoren- und Turbinen Union, and majorit <br> But it is basically neluctan |
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Then ITALY

## Building strengths in collaboration


#### Abstract

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This version has now
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 72 seater version which has so
fara atracted 17 firm orders and
33 optionc ${ }^{2} 33$ optitions.
Developprent of Aertrabia's
civil aikion progranmes sits
alongside a maturing fivive
 on a solldyy internationnal basis.
Following the Tornado pro

 geometry wings, the ltalian
company is now working on the Eurbpean Y Mehter Aircraft
project Here
amount its share of to
owork





The three engine Falcon 50 and 900 . Executive jets as safe as airliners.

Of course you could stick with copmparing ope ating ranges, cruising speeds, usabk cabin space and the soundproofing of other privatejex which, acvantages which are the strenigth and reputation of the Falcon the world over.
But the compartison stops thee for one very: simple reason The Falcon 50 et 900 frave three. engines
Use of a third engine positions both of these air : Use of a third engine posionsoon or these air-
riaft at the very sthctestevel of safeythat mposed
on ainliners making overwater flights via the shortest oures The provides the aircuaft with additional power always at the ready for the systems which To understand the essential role, vital in the power factor especially when flying over, intiospititale: zones just
keep in mind the importance
Objectively speaking the security offered by the ree-engine Falcon is comparable to that of commercial airiners, not of other corporate jets in their dass. This is lof course why executives prefer and 900

Dassault Intemational

THE NETHERLANDS Fokker's fortunes recover




















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this year and next and Fokker

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## Fighter choice close

THE RELGXAN aerospace
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about its two streams of work - civi and military.



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> EVIIT



## Spain's troubleshooter finds the going tough <br> Deeper losses jolt public sector favourite

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## Looking for a new identity

ITS WINGS cllpped by last





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The Dash 8 sets bold new standards for regional airiner: teliability, boosting passenger loyaty wnew heights Dumbilty True to the dextavi: matre thand tradition of robus arcrat, tough demands of a regional airline schedule Tis superior strictuardintegrity delivers an: economic life of 160,000 cycles

Moreover, since routine inspec tions are required less often, the Dash 8 doesn't have to be sidelined for maintenance ever other day or so.
Maintainability. The Dash 8 is designed to make mainteriance simple and fast Components are easily accessible without tancy ground equipment. Most
tine-replaceable units can be
changed in fifteen minutes. Result: you can get the Dash 8 back in service quickly - and on schedule. Reliability. The Dash 8's dispatch reliability and schedule complesion are in excess of $99 \%$. You can count can your passengers. Which is why operators and passengers return to the Dash 8 again and again. Which brings us to the bottom line:

Profitability. The Dash 8 is easy to maintain, cost-efficient to operate, rargets. Operators and passengers know they can rely on the Dash8. And that's the botom line

Reliability
Boeing Canada
de Havilland Division

## AEROSPACE 16






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aerospace． Canadian aerospace will gen－
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this year，and about 50 per

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 The two largest Canadian dian International，are commit－
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nance contract tor conaite canada＇s
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## Canada＇s industry is reaching out and Seeking new niches

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Boeing now owner of de
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Canadia，has over

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（Chene Beal Tron Helicopter
（anada）plant in Montreal

 series of commencial light heli－
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 Ontario，MBB Aerospace Can
ada，beean withe good Govern
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 The Government Is
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has the strongest warranty in the business．And a global network of facilities delivers on Citation＇s outstanding reputation for customer support
Smal Small wonder the Citation III has
become the jet of choice for companies that are going places fast companies For more information Cessna AircraftCompany，Citation Marketing Division，Executive Jet Centre，Heathrow Airport South， England or call（01）759－2814．
cxTMAMM1M11 consider this：
No other business jet in its class efficiency，or speed at nomal cruising The Citation III cruises at up to performance can reduce a 730 mile trip to less than 90 minutes No other business jet in its class is more efficient feet in just 21 minutes，at a typic operating weight lts certified to
51,000 feet well above commercial
airlines and most adverse weather．
No other business jet in the world flies hoother buṣiness jet in the world and companies whose growth has their current business aircraft will find Citation III also responds to a need for cabin．It has the largestexternal baggage compartment of any midsize across the laps of passengers already Quite simply，no other midsize jet
offers as much overall comfortfor eight or more passengers． more assurance of reliability．Citation II！

## ARGENTINA Sell－offs for cash

| claims to be one of the lowest in the industry． <br> In 1987 it carried a total of | eniment has been keen to fin aliee a part sale to SAS，with | 29 international routes，with |
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## Limits of finance

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Collaboration is the keynote

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[^2]$\qquad$
China's aim is to extend co-operation with other countries

## Preparing for significant expansion



SUPERB FROM LONDON TO BAHRAIN. EVEN BETTER From Paris To Frankfurt.

The Versatice
CHALLENGER 601-3A.
3,000 miles is not the critical test of executive jet fuel efficiency, it's the short hops that pose the greatest challenges. $\mathbf{3 0 0}$ miles or less. And for either range, Canadair's Challenger knows no equal among large business jets. Challenger even outperforms some smaller less capable mid-size jets in fuel efficiency. It's likely the only jet you'll need. A one-airplane mixed fleet, making two or more jets with specific range preferences a wholly unnecessary expense.

## COMFORT WITH PERFORMANCE: One ride will tell you that

 Challenger is the widest, mostcomfortable business jet. But it can also confirm the thirdgeneration Challenger's surprising performance credentials. Aerodynamic design and militaryproven General Electric turbofan engines give Challenger the highest thrust-weight ratio in big business jets, a top speed of Mach .83 or 548 mph , plus 16 climb-rate records.

Performance like this, and comfort for up to 19 passengers is all achieved with such quiet dignity that Challenger flies unrestricted by curfews at noisesensitive airports.

OVER 40 YeARS' AEROSPACE EXPERTISE.

Since 1944, Canadair has been designing, engineering and producing both military and commercial aviation products.

This includes the world's most advanced unmanned airborne surveillance systems, the famous firefighting aircraft, plus major components for such demanding. companies as Boeing, Lockheed and McDonnell Douglas.

For more information about the Canadair Challenger ${ }^{\text {c }}$ call Hugh Wilsonat (44) 628-529366 or write Canadair Challenger, "Longacres" Windsor Hill, Wooburn Green, Buckinghamshire HP10 OEH.
canadaur

CHALLENGER WIDEBODY LEADERSHIP

## JAPAN <br> Designated a key industry



## A SECOND TRY BYDAEDALUS



Australia is to remove detailed restrictions

## Government limitations coming to an end



## Looking for exports



| aerospace company in the world which Btishds tixed-wing | and speed from the upgraded engine and greatly mproved |
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## Growth curve.

The growing workd strength of Plessey in aerospace is the result of a three-pronged strateg.
Grow

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And throuth expending it stake in the talian electronic warfare specialist, Eletronica With such moves. Plessey is widening its echnological base and strengthening its preence in North America and Europe
Growth through research and developmenter
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Plessey is meeting the needs of military
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th solutions cover identification, navi-
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ctuation, electrical generation, power control
Pesse in
Plessey in aerospace is firmly on the growth path to success.

The armed forces are still the biggest individual buyers and activity remains high among the main manufacturers

## US keeps share of depressed helicopter market

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## FIRSFELASS RETURNS

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[^0]:    ANZ has a global network spread over 40 countries and provides a full range of international services based on invaluable first－hand local knowledge．Talk to the bankers who know their
    country as well as yours．Taik to ANZ．
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[^1]:    宫

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